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By: Ted Martinez Printed: Ted Martinez

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bandman et al.

Title: DISEASE ASSOCIATED PROTEIN KINASES

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SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7A, and 7B, as fifteen (15) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

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If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

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1	M	E	L	L	R	T	I	T	Y	Q	P	A	A	S	T	K	M	C	E	Q	A	L	G	K	G	C	G	A	D	S	K	K	R	P	P	P	E	DAPK-1			
1	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1488263				
41	E	S	Q	P	P	Q	S	Q	A	Q	V	P	P	A	A	P	H	H	H	H	H	H	S	H	S	G	P	E	I	S	R	I	I	V	D	P	T	T	G	K	DAPK-1
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1488263			
81	R	Y	C	R	G	K	V	L	G	K	G	F	A	K	C	Y	E	M	T	D	L	T	N	N	K	V	Y	A	A	K	I	I	P	H	S	R	V	A	K	DAPK-1	
22	T	Y	L	K	G	R	L	L	G	K	G	F	A	R	C	Y	E	A	T	D	T	E	T	G	S	A	Y	A	V	K	V	I	P	Q	S	R	V	A	K	g1488263	
121	P	H	Q	R	E	K	I	D	K	E	I	E	L	H	R	I	L	H	K	H	V	Q	F	Y	H	Y	F	E	D	K	E	N	I	Y	I	L	L	E	DAPK-1		
62	P	H	Q	R	E	K	I	N	E	I	E	L	H	R	I	L	Q	H	R	H	I	V	R	F	S	H	H	F	E	D	A	D	N	I	Y	I	F	L	E	g1488263	
161	Y	C	S	R	R	S	M	A	H	I	L	K	A	R	K	V	L	T	E	P	E	V	R	Y	Y	L	R	Q	I	V	S	G	L	K	Y	L	H	E	Q	E	DAPK-1
102	L	C	S	R	K	S	L	A	H	I	W	K	A	R	H	T	L	L	E	P	E	V	R	Y	Y	L	R	Q	I	L	S	G	L	K	Y	L	H	Q	R	G	g1488263
201	I	L	H	R	D	L	K	L	G	N	F	F	I	N	E	A	M	E	L	K	V	G	D	F	G	L	A	A	R	L	E	P	L	E	H	R	R	R	T	I	DAPK-1
142	I	L	H	R	D	L	K	L	G	N	F	F	I	T	E	N	M	E	L	K	V	G	D	F	G	L	A	A	R	L	E	P	P	E	Q	R	K	K	T	I	g1488263

FIGURE 1A

241 CGTPNYLSPEVLNKQGHGCESDIWAALGCVMYTMLLGRPPF DAPK-1
 182 CGTPNYVAPEVLRLRQGHGPEADVWSLGCVMYTLCLCGSPFF g1488263
 281 ETTNLLKETRYRCIREARYTMPSSLLAPAKHLIASMLSKNPE DAPK-1
 222 ETADLLKETRYRCIKQVHYTLPLPASLSLPAARQLLALAILLRASPR g1488263
 321 DRPSLLDDIIRHDFFLQGFPTPDRLLSSSCCHTVPDFHLSSPA DAPK-1
 262 DRPSIDQILRHDFFTKGYTPDRLLPISSCVTVPDLTPPNPA g1488263
 361 KNFFKKAALFGGKKDKARYIDTHNRVSKEDEDIYKL RH DAPK-1
 302 RSLFAKVTKSLFGRKKSKKNH-----AQERDEVSGLV S g1488263
 401 DLLKKTSTITQOPSKHRTDEELQPPTTTVARSGTPAVENKQQ DAPK-1
 335 GLMRITSVGHQDARPEAPAASGPAVSL-----VETAPE g1488263
 441 IGDAIRMIVRGTLGSSCSSSECL EDS TMGSVADTVARVLR DAPK-1
 368 DSSP-----RGTLASSGDGFEE--EGLTVATVVESALCALR g1488263

FIGURE 1B

481 G C L E N M P E A D C I P K E - Q L S T S F Q W V T K W V D Y S N K Y G F G Y Q DAPK-1
401 N C I A F M P P A E Q N P A P L A Q P E P L V W V S K W V D Y S N K F G F G Y Q g1488263

520 L S D H T V G V L F N N G A H M S L L P D K K T A H Y Y A E L G Q C S V F P A T DAPK-1
441 L S R R V A V L F N D G T H M A L S A N R K T V H Y N P T S T K H F S F S V G g1488263

560 D A P E Q F I S Q V T V L K Y F S H Y M E E N L M D G G D L P S V T D I R R P - DAPK-1
481 A V P R A L Q P Q L G I L L R Y F A S Y M E Q H L M K G G D L P S V E E V E V P A g1488263

599 R L Y L L Q W L K S D K A L M M L F N D G T F Q V N F Y H D H T K I I I C S Q N DAPK-1
521 P P L L L Q W V K T D Q A L L M L F S D G T V Q V N F Y G D H T K L I L S G - W g1488263

639 E E Y L L T Y I N E D R I S T T F R L T T L L M S G C S S E L K N R M E Y A L N DAPK-1
560 E P L L V T F V A R N R S A C T Y L A S H L R Q L G C S P D L R Q R L R Y A L R g1488263

679 M L L Q R C - N DAPK-1
600 L L R D R S P A g1488263

FIGURE 1C

1 M P P K R - - - - - N E K Y K L P I P F P E G K V L D D M E G N Q W V L G DAPK-2
1 M P R V K A A Q A G R Q S S A K R H L A E Q F A V G E I I T D M A K K E W K V G g1827450

33 K K I G S G G F G L I Y L A - - F P T N K P E K D A R H V V K V E Y Q E N G P L DAPK-2
41 L P I G Q G G F G C I Y L A D M N S S E S V G S D A P C V V K V E P S D N G P L g1827450

71 F S E L K F Y Q R V A K K D C I K K W I E R K Q L D Y L G I P L F Y G S G L T E DAPK-2
81 F T E L K F Y Q R A A K P E Q I Q K W I R T R K L K Y L G V P K Y W G S G L H D g1827450

111 F K G R S Y R F M V M E R L G I D L Q K I S G Q N G T - F K K S T V L Q L G I R DAPK-2
121 K N G K S Y R F M I M D R F G S D L Q K I Y E A N A K R F S R K T V L Q L S L R g1827450

150 M L D V L E Y I H E N E Y V H G D V K A A N L L L G Y K N P D Q V Y L A D Y G L DAPK-2
161 I L D I L E Y I H E H E Y V H G D I K A S N L L L N Y K N P D Q V Y L V D Y G L g1827450

190 S Y R Y C P N G N H K K O Y Q E N P R K G H N G T I E F T S L D A H K G V G E I A DAPK-2
201 A Y R Y C P E G V H K K E Y K E D P K R C H D G T I E F T S I D A H N G V A P - - g1827450

FIGURE 2A

230 Q F L V C A H S L A Y D E K P N Y O A L K K I L N P H G I P L G P L D F S T K G DAPK-2
239 - - - - - S R R G - D L E I L G Y C - M I g1827450

270 Q S I N V H T P N S O K V D S Q K A A T K Q V N K A H N R L I E K K V H S E R S DAPK-2
253 Q W L T G H L P W E D N L K D P K Y V R D S - - - - - g1827450

310 A E S C A T W K V O K E E K L I G L M N N E A A Q E S T R - R R Q K Y Q E S O E DAPK-2
275 - - - - - K I R Y R E N I A S L M D K C F P E K N K P G E I A K Y M E T V K g1827450

349 P L N E V N S F P Q K I S Y T Q F F P N S F Y E P H Q D F T S P D I F K - - - K S DAPK-2
308 L L D - - - Y T E K P L Y E N L R D I L L Q G L K A I G S K D D G K L D L S V g1827450

386 R S P S W Y K Y T S T V S T G I T D L E S S T G L W P T I S Q F T L S E E T N A DAPK-2
344 V E N G G L K A K T I T K K R K K E I E S K E - - P G V E D T E W S N T Q T E g1827450

426 D V Y Y Y R I I I P V L L M L V F L A L F F L
382 E A I Q T R S R T R K R V Q K DAPK-2
g1827450

FIGURE 2B

1	M	L	A	R	R	K	P	V	L	P	A	L	T	I	N	P	T	I	A	E	G	P	S	P	T	S	E	G	A	S	E	A	N	L	V	D	L	Q	K	K	DAPK-3
1	M	L	A	R	R	K	P	V	L	P	A	L	T	I	N	P	T	I	A	E	G	P	S	P	T	S	E	G	A	S	E	A	H	L	V	D	L	Q	K	K	g303804
41	L	E	E	L	D	E	Q	Q	K	R	R	L	E	A	F	L	T	Q	K	A	K	V	G	E	L	K	D	D	D	F	F	E	R	I	S	E	L	G	A	DAPK-3	
41	L	E	E	L	D	E	Q	Q	R	K	R	L	E	A	F	L	T	Q	K	A	K	V	G	E	L	K	D	D	D	F	F	E	R	I	S	E	L	G	A	g303804	
81	G	N	G	V	V	T	K	V	Q	R	H	R	P	S	G	L	I	M	A	R	K	L	I	H	L	E	I	K	P	A	I	R	N	Q	I	I	R	E	L	Q	DAPK-3
81	G	N	G	V	V	T	K	A	R	H	R	P	S	G	L	I	M	A	R	K	L	I	H	L	E	I	K	P	A	V	R	N	Q	I	I	R	E	L	Q	g303804	
121	V	L	H	E	C	N	S	P	Y	I	V	G	F	Y	G	A	F	Y	S	D	G	E	I	S	I	C	M	E	H	M	D	G	G	S	L	D	H	L	L	K	DAPK-3
121	V	L	H	E	C	N	S	P	Y	I	V	G	F	Y	G	A	F	Y	S	D	G	E	I	S	I	C	M	E	H	M	D	G	G	S	L	D	Q	V	L	K	g303804
161	E	A	K	R	I	P	E	E	I	L	G	K	V	S	I	A	V	L	R	G	L	A	Y	L	R	E	K	H	Q	I	M	H	R	D	V	K	P	S	N	I	DAPK-3
161	E	A	K	R	I	P	E	D	I	L	G	K	V	S	I	A	V	L	R	G	L	A	Y	L	R	E	K	H	Q	I	M	H	R	D	V	K	P	S	N	I	g303804

FIGURE 3A

201	L	V	N	S	R	G	E	I	K	L	C	D	F	G	V	S	G	Q	L	I	D	S	M	A	N	S	F	V	G	T	R	S	Y	M	A	P	E	R	L	Q	DAPK-3
201	L	V	N	S	R	G	E	I	K	L	C	D	F	G	V	S	G	Q	L	I	D	S	M	A	N	S	F	V	G	T	R	S	Y	M	S	P	E	R	L	Q	g303804
241	G	T	H	Y	S	V	Q	S	D	I	W	S	M	G	L	S	L	V	E	L	A	V	G	R	Y	P	I	P	P	P	D	A	K	E	L	E	A	I	F	G	DAPK-3
241	G	T	H	Y	S	V	Q	S	D	I	W	S	M	G	L	S	L	V	E	L	A	I	G	R	Y	P	I	P	P	P	D	A	K	E	L	E	A	S	F	G	g303804
281	R	P	V	V	D	G	E	E	G	E	P	H	S	I	S	P	R	P	R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	DAPK-3
281	R	P	V	V	D	G	A	D	G	E	P	H	S	V	S	P	R	P	R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	g303804
321	L	L	D	Y	I	V	N	E	P	P	P	K	L	P	N	G	V	F	T	P	D	F	Q	E	F	V	N	K	C	L	I	K	N	P	A	E	R	A	D	L	DAPK-3
321	L	L	D	Y	I	V	N	E	P	P	P	K	L	P	S	G	V	F	S	S	D	F	Q	E	F	V	N	K	C	L	I	K	N	P	A	E	R	A	D	L	g303804
361	K	M	L	T	N	H	T	F	I	K	R	S	E	V	E	E	V	D	F	A	G	W	L	C	K	T	L	R	L	N	Q	P	G	T	P	T	R	T	A	V	DAPK-3
361	K	L	L	T	N	H	A	F	I	K	R	S	E	G	E	D	V	D	F	A	G	W	L	C	R	T	L	R	L	K	Q	P	S	T	P	T	R	T	A	V	g303804

FIGURE 3B

1 MAMTAGT T T T P M S N H T R E R V T V A K L T L E N F Y S N L I L Q H E DAPK-4
1 MAMT - G S T P C S S M S N H T K E R V T M T K V T L E N F Y S N L I A Q H E g854170

41 E R E T R Q K K L E V A M E E E G L A D E E K K L R R S Q H A R K E T E F L R L DAPK-4
40 E R E M R Q K K L E K V M E E E G L K D E E K R L R R S A H A R K E T E F L R L g854170

81 K R T R L G L D D F F E S L K V I G R G A F G E V R L V H K K D T G H I Y A M K I DAPK-4
80 K R T R L G L E D F F E S L K V I G R G A F G E V R L V Q K K D T G H V Y A M K I g854170

121 L R K S D M L E K E Q V A H I R A E R D I L V E A D G A W V V K M F Y S F Q D K DAPK-4
120 L R K A D M L E K E Q V G H I R A E R D I L V E A D S L W V V K M F Y S F Q D K g854170

161 R N L Y L I M E F L P G G D M M T L L M K K D T L T E E E T Q F Y I S E T V L A DAPK-4
160 L N L Y L I M E F L P G G D M M T L L M K K D T L T E E E T Q F Y I A E T V L A g854170

201 I D A I H Q L G F I H R D I K P D N L L L D A K G H V K L S D F G S C T G L K K DAPK-4
200 I D S I H Q L G F I H R D I K P D N L L L D S K G H V K L S D F G L C T G L K K g854170

FIGURE 4A

241 A H R T E F Y R N L T H N P P S D F S F Q N M N S K R K A E T W K K N R R Q L A DAPK-4
 240 A H R T E F Y R N L N H S L P S D F T F Q N M N S K R K A E T W K R N R R Q L A g854170

281 Y S T V G T P D Y I A P E V F M Q T G Y N K L C D W S L G V I M Y E M L I G Y DAPK-4
 280 F S T V G T P D Y I A P E V F M Q T G Y N K L C D W S L G V I M Y E M L I G Y g854170

321 P P F C S E T P Q E T Y R K V M N W K E T L V F P P E V P I S E K A K D L I L R DAPK-4
 320 P P F C S E T P Q E T Y K K V M N W K E T L T F P P E V P I S E K A K D L I L R g854170

361 F C I D S E N R I G N S G V E E I K G H P F F E G V D W E H I R E R P A A I P I DAPK-4
 360 F C C E W E H R I G A P G V E E I K S N S F F E G V D W E H I R E R P A A I S I g854170

401 E I K S I D D T S N F D D F P E S D I L Q P V P N T T - - - E P D Y K S K D W V DAPK-4
 400 E I K S I D D T S N F D E F P E S D I L K P T V A T S N H P E T D Y K N K D W V g854170

438 F L N Y T Y K R F F E G L T O R G S I P T Y M K A G K L DAPK-4
 440 E I N Y T Y K R F F E G L T A R G A I P S Y M K A K g854170

FIGURE 4B

1 M L L L K - - - - K H T E D I S S V Y E I R E R L G S G A F S E V V L A Q E R DAPK-5
1 M L G A V E G P R W K Q A E D I R D I Y D F R D V L G T G A F S E V I L A E D K g790790

36 G S A H L V A L K C I P K K A L R G K E A L V E N E I A V L R R I S H P N I V A DAPK-5
41 R T Q K L V A I K C I A K E A L E G K E G S M E N E I A V L H K I K H P N I V A g790790

76 L E D V H E S P S H L Y L A M E L V T G G E L F D R I M E R G S Y T E K D A S H DAPK-5
81 L D D I Y E S G G H L Y I I M Q L V S G G E L F D R I V E K G F Y T E R D A S R g790790

116 L V G Q V L G A V S Y L H S L G I V H R D L K P E N L L Y A T P F E D S K I M V DAPK-5
121 L I F Q V L D A V K Y L H D L G I V H R D L K P E N L L Y Y S L D E D S K I M I g790790

156 S D F G L S K I Q - A G N M L G T A C G T P G Y V A P E L L E Q K P Y G K A V D DAPK-5
161 S D F G L S K M E D P G S V L S T A C G T P G Y V A P E V L A Q K P Y S K A V D g790790

195 V W A L G V I S Y I L L C G Y P P F Y D E S D P E L F S Q I L R A S Y E F D X P DAPK-5
201 C W S I G V I A Y I L L C G Y P P F Y D E N D A K L F F E Q I L K A E Y E F D S P g790790

FIGURE 5A

DAPK-5 g790790
DAPK-5 g790790

235 F W D D I S E L S G K D F I R H L L E R D L Q K R F T C Q A A L R D L W I F W D T
241 Y W D D I S D S A K D F I R H L M E K D P E K R F T C E O A L Q H P W I A G D T

275 G F G R D I L G F V S E Q I R K N F A W T H W K R A F N A T L F L R H I R K L -
281 A L D K N I H Q S V S E Q I K K N F A K S K W K Q A F N A T A V V R H M R K L Q

314 - G Q I P E G E G -- A S E Q G M X R H S H X G ---
321 L G T S I Q E G Q G O T A S H G E L L T P V A G G P A A G C C C R D C C V E P G T

335 - L R A G Q P K W
361 E L S P T L P H O L

DAPK-5 g790790

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1	M I L A S V L R S G P G G L P L R P L L G P A L A L R A R S T S A T D T H H V	DAPK-6
1	-----S T S A T D T H H V	g924921
41	E M A R E R S K T V T S F Y N Q S A I D A A A A E K P S V R L T P T M M L Y A G R	DAPK-6
11	E L A R E R S K T V T S F Y N Q S A I D V V A E K P S V R L T P T M M L Y S G R	g924921
81	S Q D G S H L L K S A R Y L Q Q E L P V R I A H R I K G F R C L P F I I G C N P	DAPK-6
51	S Q D G S H L L K S G R Y L Q Q E L P V R I A H R I K G F R S L P F I I G C N P	g924921
121	T I L H V H E L Y I R A F Q K L T D F P P I K D Q A D E A Q Y C Q L V R Q L L D	DAPK-6
91	T I L H V H E L Y I R A F Q K L T D F P P I K D Q A D E A Q Y C Q L V R Q L L D	g924921
161	D H K D V V T L L A E G L R E S R K H I E D E K L V R Y F L D K T L T S R L G I	DAPK-6
131	D H K D V V T L L A E G L R E S R K H I E D E K L V R Y F L D K T L T S R L G I	g924921
201	R M L A T H H L A L H E D K P D F V G I I C T R L S P K K I I E K W V D F A R R	DAPK-6
171	R M L A T H H L A L H E D K P D F V G I I C T R L S P K K I I E K W V D F A R R	g924921

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241	LCEHKYGNAPRV	INGHVAA	RFPFI	PMPLDY	ILPEL	LKNA	DAPK-6
211	LCEHKYGNAPRV	INGHVAA	RFPFI	PMPLDY	ILPEL	LKNA	g924921
281	MRA	TMESHLD	TPYNV	PDVVI	TIANN	DVDDLIIRIS	DAPK-6
251	MRA	TMESHLD	TPYNV	PDVVI	TIANN	DVDDLIIRIS	g924921
321	AHKDL	DRVMDY	HFTTAE	ASTQD	PRISPL	FGHLD	DAPK-6
291	AHKDL	DRVMDY	HFTTAE	ASTQD	PRISPL	FGHLD	g924921
361	GPMH	GFGFGL	PTSR	AYAEY	LGGS	LQLQSL	DAPK-6
331	GPMH	GFGFGL	PTSR	AYAEY	LGGS	LQLQSL	g924921
401	RHID	GREES	FR				DAPK-6
371	RHID	GREES	FR				g924921

FIGURE 6B

1 MLEKLEFEDEAVEDSE-----SGVYMRFRSHKCYD DAPK-7
1 METVISSDSSPAVENEHPQETPESNNSVYTSFMKSHRCYD g1335856

32 IVP TSSKLVVFD T T L Q V K K A F F A L V A N G V R A A P L W E S K K Q DAPK-7
41 L I P T S S K L V V F D T S L Q V K K A F F A L V T N G V R A A P L W D S K K Q g1335856

72 SFVGM L T I T D F I N I L H R Y Y K S P M V Q I Y E L E E H K I E T W R E L DAPK-7
81 SFVGM L T I T D F I N I L H R Y Y K S A L V Q I Y E L E E H K I E T W R E V g1335856

112 Y L Q E T F K P L V N I S P D A S L F D A V Y S L I K N K I H R L P V I D P I S DAPK-7
121 Y L Q D S F K P L V C I S P N A S L F D A V S S L I R N K I H R L P V I D P E S g1335856

152 G N A L Y I L T H K R I L K F L Q L F M S D M P K P A F M K Q N L D E L G I G T DAPK-7
161 G N T L Y I L T H K R I L K F L K L F I T E F P K P E F M S K S L E E L Q I G T g1335856

FIGURE 7A

192 YHNI AFIHPDTP I I K A L N I F V E R R I S A L P V V D E S G K V V D I DAPK-7
201 Y A N I A M V R T T P V Y V A L G I F V Q H R V S A L P V V D E K G R V V D I g1335856

232 Y S K F D V I N L A A E K T Y N N L D I T V T Q A L Q H R S Q Y F E G V V K C N DAPK-7
241 Y S K F D V I N L A A E K T Y N N L D V S V T K A L Q H R S H Y F E G V L K C Y g1335856

272 K L E I L E T I V D R I V R A E V H R L V V V N E A D S I V G I I S L S D I L Q DAPK-7
281 L H E T L E T I I N R L V E A E V H R L V V V D E N D V V K G I V S L S D I L Q g1335856

312 A L I L T P A G A K Q K E T E T E
321 A L V L T G G E K K P DAPK-7
g1335856

FIGURE 7B